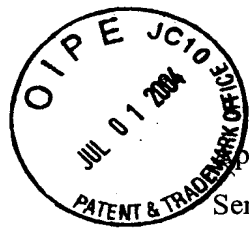


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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: HACKER et al.

Serial No. 10/673,024

Group Art Unit: 2821

Filed: September 26, 2003

Title: HIGH IMPEDANCE STRUCTURES FOR MULTIFREQUENCY ANTENNAS AND WAVEGUIDES

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97(b)**

Sir:

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), applicants bring to the attention of the Examiner the documents listed on the attached Form PTO-1449. This Information Disclosure Statement is being filed within three months of the filing of the above referenced application or before the mailing date of a first Office Action on the merits for the above-referenced application.

In accordance with the PTO procedure, (all patent applications filed after June 30, 2003), we have not enclosed the U.S. patent references cited on PTO form 1449.

Applicants respectfully request that the Examiner consider the listed documents and evidence that consideration of relevant portions thereof by making appropriate notations on the attached form.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art". If the Examiner applies any of the documents as prior art

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**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on

6/28/04  
Date


Marianne Middleton

against any claim in the application and applicants determine that the cited documents do not constitute "prior art" under United States law, applicants reserve the right to present to the Office the relevant facts and law regarding the appropriate status of such documents.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

Respectfully submitted,

Dated: 6/20/04

  
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M/J4-99SC045DV7  
IDS-1.97(b).doc

FORM PTO-1449 (Modified) INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)	Docket No. 99SC045DV7	Application Number 10/673,024
	Applicant HACKER et al.	
	Filing Date 9/26/03	Group Art Unit 2821

### U.S. PATENT DOCUMENTS

Examiner Initial	Document Number							Date	Name	Class	Subclass	Filing Date If Appropriate
	6	2	0	8	3	1	6	3/01	CAHILL	343	909	
	6	4	2	6	7	2	2	7/02	SIEVENPIPER et al.	343	909	
	5	4	9	7	1	6	8	3/5/96	THOMAS et al.	343	834	

### FOREIGN PATENT DOCUMENTS

	Document Number							Date	Country	Class	Subclass	Translation	
												Yes	No
	2	5	1	8	8	2	8	6/24/83	FRANCE	343	909		X

### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	1	CRC PRESS, <u>THE ELECTRICAL ENGINEERING HANDBOOK 2<sup>nd</sup> EDITION</u> , DORF, Pg 970, (1997)
	2	D. SIEVENPIPER, "HIGH IMPEDANCE ELECTROMAGNETIC SURFACES," (1999) <u>PhD THESIS</u> , UNIVERSITY OF CALIFORNIA, LOS ANGELES
	3	C.M. LIU et al., <u>MONOLITHIC 40 Ghz 670 Mw HBT GRID AMPLIFIER</u> , (1996) IEEE MTT-S, p. 1123
	4	M. KIM et al. <u>A RECTANGULAR TEM WAVEGUIDE WITH PHOTONIC CRYSTAL WALLS FOR EXCITATION OF QUASI-OPTIC AMPLIFIERS</u> , (1999) IEEE MTT-S, Archived on CDROM pp.1-4
	5	M.A. ALI et al., <u>ANALYSIS AND MEASUREMENT OF HARD HORN FEEDS FOR THE EXCITATION OF QUASI-OPTICAL AMPLIFIERS</u> , (1998) IEEE MTT-S, pp. 1913-1921
Examiner		Date Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.